fuel gas; providing said breathable composition to an animal on land while the animal is surrounded by a gaseous environment; and within said animal, dxidizing said reactive oxygen species with said fuel gas. 13.(Amended) The thethod of claim 8, said fuel gas being selected from hydrogen, methane, ethane, and propane. 15.(Amended) The method of claim 8, said breathable composition being an explosive composition. 21.(Amended) The method of claim 8, further comprising the steps of: 1 filling a first chamber having an open bottom with the breathable composition, said first 2 chamber being positioned in a second chamber, said breathable composition being lighter than an 3 ambient air so that said breathable composition is held in said first chamber; and positioning the animal in the first chamber with the open bottom so that the animal breathes the breathable composition. 6 22.(Amended) The method of claim 21, further comprising: 1 explosion-proofing the environment in the first and second chambers. 2 24.(Amended) The method of claim 21, further comprising: scrubbing an exhaled gas of the first chamber to remove carbon dioxide.

25.(Amended) The method of claim 21, said breathable composition comprising at least 66% l hydrogen by volume. 2 26.(Amended) The method of claim 21, said breathable composition comprising hydrogen and acetylene. 27.(Amended) The method of claim 21, the breathable composition in the first chamber 1 having a density less than about 75% of the ambient air. 2 28.(Amended) The method of claim 8, the step of providing further comprising the steps of: 1 positioning the animal in a building with a ventilation system; and 2 supplying said fuel gas into the ventilation system to provide the breathable composition 3 inside the building. 4 29.(Amended) The method of claim 8, the step of providing said breathable composition 1 simultaneously with the step of preparing said breathable composition by supplying said fuel gas to 2 a respiratory tract of the animal so that, upon inhalation of the fuel gas and ambient air, said 3 breathable composition is provided to the animal. 4

composition to the animal via an oral-nasal mask or a helmet.

31.(Amended) The method of claim 8, further comprised of supplying the breathable

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32.(Amended) The method of claim 29, further comprised of maintaining a selected concentration of the fuel gas in the breathable composition by regulating a rate of supply of said fuel gas to the respiratory tract.

33. (Amended) A method of protecting a person from reactive oxygen species, the method comprising the steps of:

preparing a fuel gas;

providing an animal on land while the animal is surrounded by a gaseous environment with a nasal delivery system; and

supplying said fuel gas to the animal through said nasal delivery system, so that, upon inhalation of said fuel gas and ambient air, said fuel gas is provided to the animal with said ambient air, said nasal delivery system further comprising a supply of a fuel gas, a supply line connected to said supply of the fuel gas, a flow restrictor mounted in said supply line, said flow restrictor restricting a flow of the fuel gas, and a valve mounted in said supply line, said valve shutting off the flow of the fuel gas.



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- 35. (Amended) The method of claim 33, with said nasal delivery system being a face mask.
- 36. (Amended) The method of claim 33, with said fuel gas being hydrogen.
- 37. (Amended) The method of claim 33, with said fuel gas being acetylene.
- 38. (Amended) The method of claim 28, said building comprising:

		P5615
	2	a ducting in the building for providing air to an inside of the building;
	3	an explosion-proof blower connected to the ducting and having a return inlet from the inside
1	4	of the building;
	5	a constant pressure source of said fuel gas;
	6	a flow restrictor for restricting the flow of said fuel gas; and
	7	a flow diffuser installed in the ducting downstream of the explosion-proof blower.
	1	39.(Amended) The method of claim 38, further comprised of opening a valve installed
	2	between said pressure source and said flow diffuser when said explosion-proof blower is operating
)(40.(Amended) The method of claim 38, said further comprised of:
	2	installing a flow sensor in said ducting; and
	3	opening a valve installed between said pressure source and said flow diffuser when said flow
	4	sensor detects air flow in the ducting.
	1	41. (Amended) The method of claim 38, saidfurthercomprised of:
	2	positioning a fuel-gas sensor inside the building; and
	3	opening a valve installed between said pressure source and said flow diffuser when said fuel
	4	gas sensor detects a particular level of said fuel gas inside the building.
	1	42.(Amended) The method of claim 38, further comprised of said flow restrictor allowing
	2	a flow rate of said fuel gas achieving a level of said fuel gas inside the house which is approximately
	3	75% of an explosive limit.

1		43.(Amended)	The method of claim 22, further comprised of said breathable composition
2	اه	being an explosive co	mposition.
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1		44.(Amended)	The method of claim 43, with said breathable composition consisting
2		essentially of hydroge	n, acetylene and oxygen.
1		45.(Amended)	The method of claim 43, with said breathable composition consisting
2		essentially of hydroge	n and oxygen.
/			
1		46.(Amended)	The method of claim 43, with said breathable composition having a density
2		less than 75% that of a	air.
1		47.(Amended)	The method of claim 43, with said first chamber further comprising a flexible
2		skirt suspended from a	ip defined by the open bottom of the first chamber.
1		48.(Amended)	The method of claim 43, wherein said first chamber is further comprised of
2		an overflow pipe exte	ending from an entry opening above the open bottom of the first chamber
3		through the top of the	first chamber, and said second chamber is further comprised of a check valve
4		at the top of the overf	ow pipe, said check valve is located in a region providing ventilation.
1		49.(Amended)	The method of claim 48, further comprising:
2		positioning an	inlet muffler inside the first chamber below the approximate height of a mouth
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of the animal in the first onamber;

purifying the breathable composition drawn by the inlet muffler by locating a life support system outside the first chamber and connecting the life support system to said inlet muffler; and purifying breathable composition to supplied to the first chamber by installing a muffler diffuser pipe inside the first chamber and connecting the pipe to the life support system.

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50.(Amended) The method of claim 49, said life support system further comprising:

a CO₂ scrubber;

a temperature and humidity control;

an oxygen supply supplementing oxygen;

a secondary loop scrubbing nitrogen, argon, oils and other contaminants; and

an alarm system alerting when there is a failure in the system.

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53.(Amended) The method of claim 43, further comprising:

an antistatic mat on a floor under the first chamber.

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54.(Amended) The method of claim 30, said delivering means comprising:

an electrolytic cell for electrolyzing water to hydrogen and oxygen, said breathable composition consisting essentially of said hydrogen and said oxygen produced by said electrolytic cell;

a supply buffer tank connected to the electrolytic cell for containing said breathable composition produced by the electrolytic cell;

a dome-loaded regulator connected to the supply buffer tank for supplying the;

	P5(6156
8	a hose connected to the dome-loaded regulator; and	
9	a helmet connected to the hose for supplying the breathable composition to a head of	thε
10	animal.	
)	55.(Amended) The method of claim 54, said delivering means further comprising:	
2	a return hose connected to the helmet, for allowing said breathable composition to leave	the
3	helmet;	
4	a dome-loaded back-pressure regulator connected to the return hose, said dome-loaded ba	ck-
. 5	pressure regulator controlling the pressure in the helmet to a negative pressure;	
6	a return buffer tank connected to said dome-loaded back pressure regulator for smooth	ing
1,	a flow of said breathable composition through the helmet; and	
8	an explosion-proof suction compressor for providing negative pressure to the helmet.	
1	56.(Amended) The method of claim 55, said delivering means further comprising:	
2	a first sensing line extending from said helmet to said dome-loaded regulator; and	
3	a second sensing line extending from said helmet to said dome-loaded back-press	ure
4	regulator.	
1	57.(Amended) The method of claim 56, said delivering means further comprising:	
2	said suction compressor being designed to produce a negative pressure of approximatel	ly 3
3	PSI.	

within said animal, oxidizing said reactive oxygen species with said acetylene.

providing an animal on land while surrounded by a gaseous environment with said brethable

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composition; and

1	66. The method of claim 65, with said oxygen being supplied from an ambient air.
1	67. The method of claim 65, with said breathable composition further intentionally
2	supplemented with a fuel gas.
1	68. The method of claim 67, said fuel gas being selected from hydrogen, methane, ethane,
2	and propane.
1	69. A method of providing protection from reactive oxygen species, the method comprising
2	the steps of:
3	providing a breathable composition comprising a first fuel gas and an oxygen, said breathable
4	composition being lighter than an ambient air;
5	filling a first chamber having an open bottom with the breathable composition, said first
6	chamber being positioned in a second chamber; and
7	positioning an animal in the first chamber with the open bottom so that the animal breathes
8	the breathable composition.
9	purifying the breathable composition by a life support system, said life support system
10	comprising a CO ₂ scrubber, a temperature and humidity controller, an oxygen supply supplementing
11	oxygen, a secondary loop for scrubbing nitrogen, argon, oils and other contaminants, and an alarm

system for alerting when there is a failure in the system.

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1 --70. The method of claim 61, further comprising the step of providing the breathable composition under a hypobaric condition.

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